

## PROFESSOR HARDY SPEAKS TODAY ON NATURE OF COLOR

Ways of Making and Measuring  
Color to be Explained  
in Lecture

PUBLIC INVITED SUNDAY

Spectrophotometer Invented by  
Lecturer Last Year Will  
be on Exhibit

Professor Arthur C. Hardy will be the speaker at the last of the Society of Arts' Popular Science Lectures to be given this year. He will speak on "Color, its nature and measurement" in Room 10-250 on Friday and Sunday at 4 o'clock and on Saturday at 2:30 o'clock. As usual students of high and preparatory schools are invited to the first two lectures and the general public to the Sunday lecture.

In the introduction the lecturer will speak of the use of color for decorative purposes in ancient times. At the present time there is a decided lack of color terminology and Professor Hardy will explain what is being done to promote the use of standardized names for describing colors and other phenomena of light. The recent application of color to music and the connection between these two will be mentioned.

### Nature of Light

The exact nature of light that is, as far as scientists know will be described. Professor Hardy will compare light with radio waves. He will also discuss monochromatic light, line and band spectra, and the continuous spectra—white light. There are many methods of producing color and these will be explained and demonstrated. Light is produced by means of a prism or cut stones and by refraction through a grating composed of very fine lines cut in glass. This is the method used by astronomers to tell the constituents of stars. The light from the telescope is passed through a grating and the various elements identified by their lines on the spectrum. The blue color of the sky is caused by scattering. This also accounts for the color of smoke. Everybody has noticed the beautiful colors produced by oil on the surface of water, in soap bubbles, and on in-

(Continued on Page 4)

## DATE OF CARNIVAL SET FOR APRIL 12

Activities Wishing Exhibits Must  
Receive Board's Approval

Breaking precedent, the committee in charge of the event has set April 12 as the day for the All-Technology Carnival. The old time circus which will no longer be in evidence in the Institute's social affairs was always held on April 1. This year the board was unable to secure the Armory on this date since it has already been engaged by another organization.

Most of the various activities have already started to work on their Carnival Day booths. The committee in charge is busy keeping them from duplicating their exhibits. If any organization wish to be represented on the Carnival lot by a side show on booth and have not yet communicated with the committee, they must do so before March 15. Activities which are desirous of having exhibits must receive the board's approval before completing their plans.

## ANNOUNCE EXECUTIVE COMMITTEE MEMBERS

At the meeting held in the North Hall of Walker Memorial yesterday afternoon, the following members of the Senior Week Committee were elected to the Executive Committee: Fisher Hills, Chairman; Bernard B. Brockleman, Treasurer; Amasa G. Smith, Secretary; Earl W. Glen, member-at-large; and C. Brigham Allen, member-at-large ex-officio. A meeting will be held on Monday at which the members of the various other committees will be announced.

## Talks on "Color" in Science Lecture Today



Prof. Arthur C. Hardy

## Noted Physicist To Speak Tonight

Dr. Irving Langmuir to Lecture  
in Huntington Hall at  
Eight O'clock

Dr. Irving Langmuir, one of the leading physicists of the present day, will speak tonight at 8 o'clock in Huntington Hall, 491 Boylston Street. The subject of the lecture is "Contact between Oxygen and Hydrogen in Contact with a Tungsten Filament: An Example of Passivity."

Dr. Langmuir has won world renown in connection with his work for the Research Laboratory of the General Electric Company. One of his recent successes is the development of the atomic hydrogen torch for welding. Many of his researches have been on electronic phenomena in vacuum tubes and the lecture tonight will be an opportunity for those interested to become acquainted with his wide experience in this field. As a lecturer, Dr. Langmuir has the reputation of being extremely clear and interesting so that all may be certain of understanding the subject in spite of the formidable length of the title. All interested are invited and no reservations or tickets are necessary.

The meeting is under the auspices of the Northeastern Section of the American Chemical Society. There is a dinner tonight at 6:30 o'clock at the Hotel Brunswick, Boylston and Clarendon Streets for all members and their guests. Reservation for the dinner at \$1.50 per plate should be made through Earnest H. Huntress Room 4-447. The lecture is open to the public and no reservations are required.

## FRESHMAN DANCE TO TAKE PLACE APRIL 5

Reisman's Orchestra Features  
First Freshman Ball

Beginning a series of social events that will last four years, the freshman class will hold its first dance Friday, April 5. The affair will be held either in the Swiss Room of the Copley Plaza Hotel or at Rogers. The choice of the ball room will depend on the number of couples who will attend. Without doubt the biggest feature of the dance will be music by Leo Reisman who proved so popular with the students at the Junior Prom.

Two dollars and a half tickets will be sold and the number attending the dance will be limited to about one hundred and fifty. Upper classmen will be admitted but freshmen have a preference in making reservations. The time and place of the sale of tickets will be announced in a later issue of THE TECH.

## Crunching Chemists Chew Candy Cheaply

Heavily laden, internally and externally, with jelly beans and similar confections, about 35 members of the M. I. T. Chemical Society groaned their way out of the Cambridge factory of the New England Confectionary Company yesterday afternoon after an inspection of the manufacturing processes used in this plant.

Much stair climbing however, in Ward's bakery, the next establishment to be visited at first seemed less productive of gustatory reward, but the eventual distribution of cakes sent these food hunters away scientifically and economically satisfied. The only complaint to be heard after the trip was that the Necco plant wasn't having a run of choice chocolates that day.

## ELECTION OF T.C.A. OFFICERS MARCH 26

Wellesley and T.C.A. to Send  
Deputation to Cushing  
Academy

Wellesley and M. I. T. are sending a deputation to Cushing Academy at Ashburnham, Massachusetts this week end to talk to the different clubs and organizations and lead discussions in regard to college problems, scholastic, social, and religious. Fred N. Dickerman '29 M. Richard Boyer '29 and two seniors from Wellesley, Ester Dickerman and Frances Huntington, will leave Saturday afternoon and return Sunday evening. This is the second deputation, the first being made to Lowell.

According to the T. C. A. constitution the elections of the new officers is to be made before April 1. On Tuesday the Executive Committee set April 16 as the day for the installation of officers and new members of the cabinet, with the elections coming off on March 26. The nominating committee was chosen and consists of Hugh Hamilton, Jr. '29 and M. Richard Boyer '29.

International goodwill, world friendship, and racial understanding will be the object of the Annual Student Conference in its meeting on Saturday, March 9, in the new Y. W. C. A. building. Delegations from schools, colleges, churches, hospitals, seminaries and other young people will attend the discussion. The T. C. A. will send a few men to the meeting and will be glad to let others who are interested join them. There will be open forums, exhibits, foreign music, a banquet and many speakers of note.

## Professor Tryon, New Admissions Officer, Back From Trip To Mid-West

Addressed Secondary Colleges  
and Alumni Meetings  
on Schedule

Professor James L. Tryon has just completed his trip which has included visits to the principal technical secondary schools in Ohio, Missouri, Mississippi, Tennessee and Kentucky. Leaving Boston on February 5 he has since then been busy keeping engagements which have included meetings with alumni at dinners and at alumni clubs on the way.

Speaking on an average of two or three times a day, Professor Tryon has had ample opportunity to study the scientific schools of the south from which Technology draws a number of students yearly. These students are brought into close touch with Institute affairs and have opportunity to ask questions and receive first-hand information. The names of men who are interested in Technology are sent back to the information office and an average of two or three hundred books per day sent out to them. The two pamphlets, neatly bound, sent to each prospective student are entitled "Picture Stories of Massachusetts Institute of Technology," a portfolio of pictures of the buildings and grounds, and "Technology," a booklet describing in non-

## Basketball Team Loses Final Game To Tufts 27-25

## Talk on America At Liberal Club

Machine Slavery to be the Main  
Feature of the Civilization  
of the Future

"What will be the ultimate result of the machine age under which we now live," was the subject of Mr. Creighton Hill's talk before yesterday's meeting of the Liberal Club. Will the machine release the human being and give him more time to do the finer things of life or will it crush and wear down the human mind by its monotony.

Civilization needs slaves. This was shown by the early Greeks. Since human slavery is wrong, the world depends on machine slavery in order to give the leisure necessary to develop the human mind and to establish a civilization in America.

### Machines Inevitable

All these machines are caused by necessities brought about by man himself. Subways and skyscrapers are caused by congestion in our cities which even a well-bred colony of rabbits would not tolerate. We rob families of fresh air by causing them to live in crowded cities and then construct iron roads and machines to carry them into the country for a few hours every week. Thus machines do not advance civilization but merely return to the human the pleasures of which they have been robbed.

Mr. Hill as an example of the saving of time by machines told of the Ford Motor Plant with its five day week. However, he pointed out that these men are doing nothing at all with this spare time they are given. In a section of Detroit there are five or six motion picture theatres to every bookstore. It is logical that these men after the monotony of their work will not turn to reading books, but seek their pleasure in the theatres in which the productions are of no high-class variety.

### Machines Make War More Horrible

It was pointed out that the recent World War with all its horrors was made possible by this recent development in machinery. Also in future wars we may expect still more horrible results and a wider range of activities. The remarkable reduction of time has now made every war

(Continued on page 4.)

## DESPERATE RALLY IN FINAL PERIOD IS UNSUCCESSFUL

Freshmen Lose Preliminary Game  
to Tufts '32 by Score  
of 32 to 25

### PAUL IS FRESHMAN STAR

In spite of a desperate rally that fell short by one basket, Technology's basketball team lost to Tufts by a score of 27 to 25 in the final game of the season played in the Hangar Gym, Wednesday night. As a preliminary to the Varsity contest the freshmen lost to the Tufts yearlings 32 to 25.

During the entire Varsity contest neither team ever led the other by more than four baskets. At the first of the game it looked as if it might be a victory for the Cardinal and Gray, as the Engineers led by an 8 to 1 score after ten minutes of play. The Jumbos soon found their stride and before long they had evened up the score and gained a one point lead, making the score 9 to 8 in favor of the Medford five.

### Warren Out on Personals

Dave Motter soon came back with another basket for the Beavers, making the score 10 to 9. After this the Jumbos broke down the Cardinal and Gray's resistance and by the end of the half the score stood 17 to 12 in favor of Tufts.

At the beginning of the second half both teams were deadlocked, as neither of them were able to do any scoring for about ten minutes. Soon, however, the Tufts cagamen increased their lead to four baskets making the score 23-15. By this time the Engineers got back into their old form and took up a vigorous offensive, only

(Continued on Page 3)

## SARGENT GIRLS WILL HEAR MUSICAL CLUBS

Dancing Will Follow Concert—  
Tickets on Sale Here

Technology's Musical Clubs and girls of the Sargent School of Physical Education will give a combined concert at Sargent School, tomorrow evening at 8 o'clock. Each of the Technology Clubs will render a group of selections, and the Girls' Glee Club will sing several numbers. The Sargent Sextet will also provide numbers in the program.

Dancing will follow the concert, and will continue until 12 o'clock, music being furnished as usual by the Technicians. Tickets for the dance, priced at 75 cents each may be obtained at the Musical Clubs office on the third floor of Walker.

Sargent School, scene of the concert, may be reached by taking an Arlington car from Harvard Square to Everett Street, Cambridge. The program will begin at 8 o'clock.

## Sprinkler System Will Help Cool Off Oarsmen

With the increased activity observed of late at the Boat House comes the announcement that a sprinkler system is to be installed in that edifice within a short time. Reports of the prodigious amount of heat developed by the members of the crew during their workouts has reached the ears of the insurance company, and a demand has been made that the building be "sprinkled" to avoid the chance of a conflagration. It is reported that Building 30 is to be similarly equipped, both systems to be installed before April 1.



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### FOR SIXTY YEARS

MANY college papers all over the United States have recently been commenting on the death of William C. B. Kemp, who was a student at Columbia University for sixty years without missing a semester. He was seventy-eight when he died, and his long period of schooling was made possible by a bequest giving him an annuity of twenty-five hundred dollars for as long as he wished to remain in school.

This is a question on which a student in Europe would differ from an American. The American viewpoint would accuse him of wasting away his whole life without purpose, for the vast extent of his knowledge was never put to a use that benefited society directly. Mere learning stored up for the pleasure derived seems to be prompted by selfish motives alone. Our wealthy men, in endowing a college, expect that those who graduate will be of some great benefit to the world.

And yet there is reason on the other side. Few people realize the narrowness of scope of the average college course which gives the degree of Bachelor. It was with this realization that Kemp pursued his studies, and doubtless he found out a great deal about methods of education, the comparative worth of various types of courses, and the treatment of the individual in the modern college system. He is not to be sneered at as one who has not improved the world, for in his long period of schooling he had innumerable friends, to whom he must have given ideas that were well worth having. His views were not those of the student, nor yet of the faculty, and yet he served as an inspiration to both.

And now he has left this world, his mind still in the plastic state that is rarely found in a man after the age of thirty. He leaves to the students of today the thought that learning does not necessarily stop at the time of graduation from college, but should continue on as long as one lives through the ever-present aids, books written for students. The short four years of study only makes it possible to understand and use these books; the rest is up to the individual.

### AWARENESS

WHEN cable-cars were in vogue and brakes functioned spasmodically at their best, many cities had men stationed at the more dangerous intersections and at the foot of every steep hill to prevent persons from being struck by shouting "Wide awake!" to the pedestrians. Even then it was realized that most people are not aware of half of what is going on around them. The "Wide awakes" have had their day but there still exists the reason for their jobs.

It can be said with certainty, however, that the "Wide awakes" were never bothered by cable-car gripmen rushing into the path of cars. And today it is true that the best motorist is the best pedestrian. The explanation is obvious. The pedestrian who drives a car appreciates fully all that a motorist can or cannot do in handling an automobile in traffic. He knows that if he is traveling 20 miles an hour, he cannot stop within seven feet. If a motorist-pedestrian is crossing the street on a traffic signal and hears the engines of a line of waiting cars beginning to accelerate he knows without seeing either the green light or the wave of a policeman's hand, that the sidewalk is his only haven. These are only two examples of the extreme usefulness and value of awareness, which quality is obtained through varying degrees of knowledge, and experience.

Every trace of conscious experience or knowledge is useful in future endeavor, even though it do nothing but deepen the imagination. In other words, the wider the comprehension the better the job can be done because, through awareness, there is a clearer picture of wherein may lie its flaws.

## As We Like It

### THE MAJESTIC

#### "CHAUVE-SOURIS"

Once again Mr. Nikita Balieff brings to Boston the celebrated Russian Revue, "Chauve-Souris." To an American a revue is an expensive display of nude chorus-girls, with perhaps a shallow plot tying together a group of song and dance acts. But to a Russian it seems an expression of the ultimate in beauty—beauty of color, of voice and body. Those few words best describe the Russian offering to Americans who appreciate art—"Chauve-Souris" is throughout a thing of exquisite beauty.

For those who have not in past years seen previous productions when the Russians have been in this country, a word of explanation may assist in understanding the type of entertainment offered. The entire company is made up of Russians, and the show is first shown at the Bat Theatre in Moscow. It is then produced in Paris, and Bostonians are privileged to view it at its second stop in this country.

The program consists of eighteen separate acts, presented in quick succession. As the curtain rises on the first scene, a little gasp escapes the audience—expecting something beautiful, it is amazed at the gorgeous display. In this "Eighteenth Century Fan," one sees the replica of a colorful fan in a famous Russian collection. Then suddenly the figures which were part of the original come to life, and with stately grace execute "The Minuet."

In contrast to the heavier sketches there is bright comedy in several of the acts. Of a somewhat different type from that to which theatre-goers in this country are used, at times the humor is jovial and hearty, and again it is stinging satire. But withal it is refreshing and delightful, as are the quaint Russian Folk Songs and Rhymes. Mr. Balieff himself, as he steps through the curtain to introduce each act, is charmingly droll, poking fun at Russian and American indiscriminately.

Through the medium of marvellous stage settings by M. Paul Colin, the majestic futility of Napoleon's career is vividly felt in the dramatization of an old Russian ballad, "The Midnight Review." Another gripping act is "The Organ Grinder." Superficially it is comedy, yet staring through the forced smiles of the actors is the stark tragedy, dire poverty and utter hopelessness of the declassé nobility.

While every number deserves high praise, space does not permit comments on each one. From sparkling humor to deep pathos, "Chauve-Souris" is Russian—all its classes are there. With an exotic and bizarre sense of beauty, the players let their audience see Russia as it is today, and reminisce on the grandeur of the past. When the final curtain falls, one feels a keen sense of disappointment at the passing of such enjoyment.

## Institute's Dome First Planned as Hub of Building

To Form "Wheel" Was Original  
Idea—Dome Higher Than  
Present State House

Those who have attained the position of Juniors and Seniors have long since ceased to admire and marvel at the great dome of Technology, but the freshmen have not yet lost the impression of its greatness. The story of its construction is always an interesting one, for it has a long history.

When the Institute Buildings were first planned, it was arranged so that the dome would be the hub of the great wheel of buildings. The outside ends of the spokes were to be only three stories high, the buildings nearer the center were to be four stories in height, and the dome was to outstrip them all, stretching its lofty top to the skies.

The dome is the largest in New England at the present time, it exceeds the statehouse dome by more than ten feet in height. The dome of the Christian Science Church on Huntington Avenue is more like the Technology dome in shape, but is so diminutive in comparison to it that it could easily be hung inside it. Modeled after the dome of the Pantheon of ancient Rome, it is composed of two drums, one inside the other, one being 120 feet in diameter and 37 feet in height, and the other being 110 feet in diameter and 18 feet in height. The second one is capped by a spherical cap with a radius of curvature of 56½ feet. The so-called "eye" is glassed in of necessity, but the old pantheon had no glass in the top to protect it from the weather. When the dome was being built,

## "Tech Show 1929 Was Best in Years", Says Prof. Rogers; "Idea Excellent"

Trying Problem Met Successfully  
He Thinks—Future Holds  
Possibilities

By Professor R. E. Rogers,  
Dept. of English

Of course, anything that an English teacher writes ought to be full of unity, coherence, and proof-reading, a lovely piece of rhetoric, like that prose poem Bill Greene wrote about his own Show—which I didn't understand because I'm getting old and behind the times.

But it's Sunday morning, and I have only the half hour between breakfast and lunch, and the Show heeler will probably come too early for the copy anyway, so I'm just going to jot down my impressions about Tech Show 1929 and let THE TECH copy reader put in the composition later.

It looks to me as if at last, after years of flops, the Tech Show management has found a formula that works. The reasons are three: first, performance during term time without the handicap of Junior Week; second, sensibly priced tickets, at \$1.50 and \$1.00 instead of the old Ziegfeld prices. And third, a new type of Show, the discontinuous, non-consecutive revue or review. It wasn't always good, but it was considerably more entertaining than the old type of Show with its interminable stretches of dull dialogue which invariably sounded like extracts from the Congressional Record.

### New Idea Only Needs Practice

Instead of the old Show, this year we had some twenty one different bits, songs and dances, skits and specialties, some good, some not so good, but all varied, rapid and brief. The idea is all right and needs only practice. Another year perhaps the Show can afford a back-drop or two perhaps even a few pieces of original music to mix with the sure-fire Broadway tunes. The chorus costumes were snappier and better colored than ever before, thanks to the Co-eds. But the main thing is that this year the Show will get by with a profit!

The high light of the Show was of course the dancing. The singing was negligible, but the dancing was the finest I have ever seen done by college men, better even than last year. This man Langdon Matthews is the best in the business, in his ability to take a crowd of knock-kneed engineers, all round-shouldered and flat chested from bending over test-tubes and slide rules, and turn them out as good looking a crowd of Albertina Rasche girls as you'd ask for. The skill, precision, pep and even, in individuals, grace were astonishing. Of course they were helped by sure-fire music. But all the numbers, especially "Pickin' Cotton," "Making Whoopee," "Digga Digga Doo," and the astonishing Bathing Girl Number, as well as the fluid and amusing Raccoon Coat dance by the men, were absolutely top-hole. Houck's Voo Doo Dance was also a brilliant conception beautifully done, though a bit over the heads of the small town boys in the audience.

### Biggest Task in Writing Skits

The skits present the greatest problem. This year, of course, was en-

thousands of feet of lumber was used for forms, and a veritable forest of piles were driven to support the heavy "armored concrete" of which it was built. In the interior are large classic columns of concrete, set in two concentric circles 21 feet apart, and between these are the bookshelves of the General Library. The classic beauty of the dome helps to make the entire Institute construction look less austere and factory-like.

tirely experimental. Bill Greene of the English Department undertook the thankless job out of the goodness of his heart. Dean Fuller, ditto, with a little ranging from good to not-so-good. It was noticeable that two most enthusiastically received, the scene in the Wellesley train and the Greek Fraternity House scene, were without question the coarsest and most vulgar. The Little Girl in the train and the nude Archimedes were particularly dreadful, not as actors but as characters. This would seem to bear out the contention of the "Voo Doo" board that what the average Technology undergraduate wants is smut and vulgarity. Indeed, one member of the Faculty was heard to remark on Friday night that the skits and the recent "Voo Doo" seemed cut from the same piece.

### Playlets Were Rather Poor

The Cannibal Island skit was pointless and ineffective. The Boston Common pantomime was amusing and saved from grossness by the absence of speech. The Dramashop one-act "Action," as was to be expected from this organization and director, clicked rapidly and easily. "The Last of the Conways," contributed by Bill Greene himself, suffered on the night I saw it from general bad acting and inaudibility. The idea is clever, a burlesque on the kind of play a very young man might write in imitation (Continued on Page 4)

## Play Directory

### Stage

Tickets for all theatres may be bought at Box-Office Prices from the T.C.A., Walker Memorial.

**COLONIAL:** "Billie". In its ninth week and still going strong.

**MAJESTIC:** "Chauve Souris". If you enjoy Real Art in a Russian atmosphere, you'll never spend a more pleasurable evening. Review in this issue.

**REPERTORY:** "Sweet Nell of Old Drury". Love and intrigues in the court of Charles II of England.

**PLYMOUTH:** "The Jealous Moon". Jane Cowl in a play written by herself, with sentiment and expression as only she can produce.

**SHUBERT:** "Manhattan Mary". Ed Wynn's stellar humor with an able cast and screamingly funny situations.

**ST. JAMES:** "Interference". Back again from the Screen to the Stage. Poison murder and blackmail, with a drawing room atmosphere throughout.

**WILBUR:** "The Trial of Mary Dugan". Realistic court trial and lightning action requires one's rapt attention.

### Screen

**FENWAY and OLYMPIA:** "The Canary Murder Case". Philo Vance portrayed on the screen, William Powell making the most of the situation.

**KEITH MEMORIAL:** "Starring Harry Langdon". Harry Langdon in a clever sketch "The Messenger", with several other good acts and "Naughty Baby" on the screen.

**LOEW'S STATE:** "Alias Jimmy Valentine". The State's first all talkie, with Bill Haines taking the part of a "gentleman burglar", and admirably too.

**METROPOLITAN:** "Captain Jack". Victor McLaglen as a coal stoker becomes entangled with a charming woman.

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**Sweet Nell of Old Drury**  
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# GYM TEAM HAS TRIANGULAR MEET

## Gymnasts Will Engage in Triangle Meet Tomorrow With Temple and Bowdoin

### FAIRCHILD RIVALS REYNOLDS IN HIGH SCORING HONORS

High Men Have Placed First in Every Meet So Far—Wells is Next Highest

### MEET MIDDIES NEXT WEEK

Tomorrow afternoon the Gym Team will engage Temple and Bowdoin in their first triangular meet of the year. This meet is preliminary to, and second in importance to, the meet to be held at Annapolis on March 16 with the Navy. Temple has so far not proved to be very strong in that they have been defeated by Navy, Princeton, Dartmouth, and Pennsylvania by large scores. Bowdoin is not a member of the Eastern Intercollegiate Gymnastic League and as a result relatively little is known of their prowess. The Engineer team worked well against Dartmouth last week and as much, if not more, may be expected from them in the Walker Gymnasium tomorrow afternoon.

Cochran has taken advantage of the triple meet to perfect the series of his men for the Navy meet, and the winner of the Princeton-Dartmouth meet will be in a triple tie for first place in the league. The winner of the league will receive a silver cup for its work.

**Fairchild and Reynolds Tie**

Captain Fairchild has made an enviable record so far this season. He has won first place on the horse in every meet this year and in the Dartmouth meet set a new Institute record in the rope climbing by doing it in five seconds flat. He is tied with Reynolds for individual scoring honors both having a total score of 32 points. Reynolds has equalled Fairchild's record in another branch of gymnastics in taking first place on the rings in every meet this year. Wells rates second in the scoring honors having a total score of 28. With the exception of the Army meet, in which he was applauded so vigorously for his acrobatic feats, he has had the high bar all his own way. At West Point the bar was too low for him to do his series, so in place of it he substituted a series never before seen on the high bar. Although the judges did not consider it worthy, the Cadets with their followers seemed to find it extremely to their liking.

**Knapp and Moore Good Horse men**

Knapp has continued his good work on the side horse throughout every meet to date. He is considered the best horse man in the league among the Sophomores. Moore has placed on the horse in every meet so far this year. Together with Fairchild and Knapp, he should show up well in the Intercollegiate which follow the Navy meet. Moore has been perfecting his series and before the judges is recognized as being a horse man of note.

Couper's time on the rope has

caused some commotion among the other members of the team, so consistent has it been. He has been doing 5 1/5 seconds regularly each day in practice. Such an occurrence is not usual among rope men so it is small wonder that the team should talk.

**Sidur A Gymnastic Boxer**

Sidur has shown that he is as good a gymnast as he is a boxer. His work on the rings has compared very favorably with that of the other more experienced competitors this season. In a preliminary list of entrants for the meet Temple has listed five men in the six events. There has not been received a list of entrants from Bowdoin at the date of issue. The entrants for Temple are as follows: High Bar—Eyth, Altimore. Horse Eyth, Drumm. Parallel Bars—Eyth, Altimore, Baack. Rings—Baack Altimore. Tumbling—Drumm Augustine. Rope—Baack.

### RECORD-BREAKING SWIMMING MARKS MEET WITH BROWN

Mackay Lowers New England Mark in 300-Yard Medley as Brown Wins 46-34

### CLOSEST MEET OF SEASON

In their fastest contest of the season, the Technology swimming team was defeated forty-six to thirty-four by Brown, Wednesday night at the University Club. The high light of the meet was the three hundred yard medley in which Ed Mackay broke the New England record by ten seconds and the Technology time by six seconds.

Although the score does not indicate it the meet with Brown was the closest of the year and except for the three hundred yard medley each point was closely contested every inch of the way. Brown, however, seemed to possess just a little more power than the Engineers which enabled them to cut loose with a final sprint at the end of each event to capture first place.

**Close Races in 440 and 150**

One of the closest races of the evening was the four hundred and forty yard free style which was a battle all the way for sixteen lengths between Henry of Brown and Jarosh of Technology. At the end of the sixteenth length Henry and Jarosh both began to sprint but the Brown swimmer had the edge on the strength and came through with a first. A similar thing happened in the hundred and fifty yard back stroke with Captain Larry Luey fighting for first with Arnold of Brown. After swimming just even with Luey for five lengths Arnold unleashed all his energy and burst into a terrific sprint which carried him well into the lead for a first.

The diving soon became a duel for first between Lykes and Brace for first honors. Both men gave a fine exhibition with a startling array of flying dutchmen, full ganas, and backward one and a half somersault, the latter being one of Lykes specialties. Brace was finally awarded first honors by a narrow margin.

**Medley Race a Thriller**

The biggest thrill of the night was furnished by Mackay when he swept to an early lead in the three hundred yard medley and continued to increase it until he beat his nearest man by over a length, with the result that he lowered the New England record for this event by ten seconds. Birnbaum also made a fine showing in the two-hundred-yard breast stroke and in the three-hundred-yard medley relay, aiding the Cardinal and Gray to get first in both events.

There is a meet tomorrow with Wesleyan which the Engineers should capture with a little difficulty. The following Saturday comes the New

## WRESTLING TEAM MEETS SYRACUSE TOMORROW NIGHT

Hope for Victory to End Season Against Strong Syracuse Grapplers

### 1932 MEETS B.U. VARSITY

Yearlings Expect Easy Victory to End Very Successful Season

After having suffered defeat last Friday and Saturday, the Varsity grapplers have improved their condition wonderfully since their New York meets, and hope to win a victory over the Syracuse team in that city tomorrow night at 8 o'clock.

Chibas, the regular 115-pounder, will wrestle, and Easley, who also was absent from the New York meets will go on the mat for Technology. Pitbladdo who has a severe cut over the ear, will be handicapped by this injury but hopes to win. Captain DerMarderosian, who has not been defeated this year, feels certain that he will be able to pin his man. Stone, who has also won a large part of his meets, should have little trouble with the Syracuse man.

Due to mid-semester failures, the Syracuse grapplers have lost their captain, Tim Crowe, and Novek, one of the mainstays of the team. Probably the most outstanding wrestlers on the Syracuse team are Flagg, 115; Peavey, 125; and Freeman, in the 175 pound class. The team has won three out of six meets, losing to Lehigh, Columbia, and Chicago.

### Freshmen Meet B. U. Varsity

After having completed a very successful season the yearlings will wrestle the B. U. Varsity tonight in their last meet of the season in the Hangar Gym at 8 o'clock. The yearlings have lost just one meet this year, and hope to end a nearly perfect season by defeating the B. U. Varsity, before entering the freshmen Intercollegiate. Axford, the strong little 115 pounder, has still to be defeated and is one of the aspirants to Intercollegiate honors. Captain Vasolotti, who has a still more enviable record of having pinned every opponent except one, also hopes to win a first in the coming Intercollegiate. Ward, the team's 175 pounder, has an undefeated record, and will undoubtedly place high in the freshmen meets. Rabinowitz, the 220 pound unlimited freshman, also expects to win honors, along with his team mates. With the exception of a few weak berths, the yearling squad is almost invincible, as they have proven themselves by their season's record.

Jameson, 145 pounder will not fight due to a sore hand. Captain Balanos is in good shape and expects to win. Horton who lost his meet two weeks ago to his New Hampshire opponent expects to even scores. Seavedro 125 pounds, defeated last time in better condition. Joyce and Orleman will not enter. Engler lost last time but gives promise of better work tomorrow.

Englands at which time Technology will have a chance to avenge the defeat by Brown.

**Fifty-yard swim—Won by Hall (B); second, Barrows (B); third, Torchio (T). Time—25 4-5s.**

**Four hundred forty-yard swim—Won by Henry (B); second, Jarosh (T); third Lutz (T). Time—5m. 54 3-5s.**

**Medley swim—Won by Mackay (T); second, Appleton (T); third, Wells (B). Time 4m. 19 4-5s. (New N. E. I. S. A. record and Tech record.)**

**Fancy diving—Won by Brace (B), 84.4; second, Lykes (T), 74.8; third, Hawkinson (B), 70.4.**

**One hundred fifty-yard backstroke—Won by Arnold (B); second, Luey (T); third, Sitler (B). Time—1m. 50s.**

**One hundred-yard swim—Won by Hall (B); second, Torchio (T); third, Henry (B). Time—56 2-5s.**

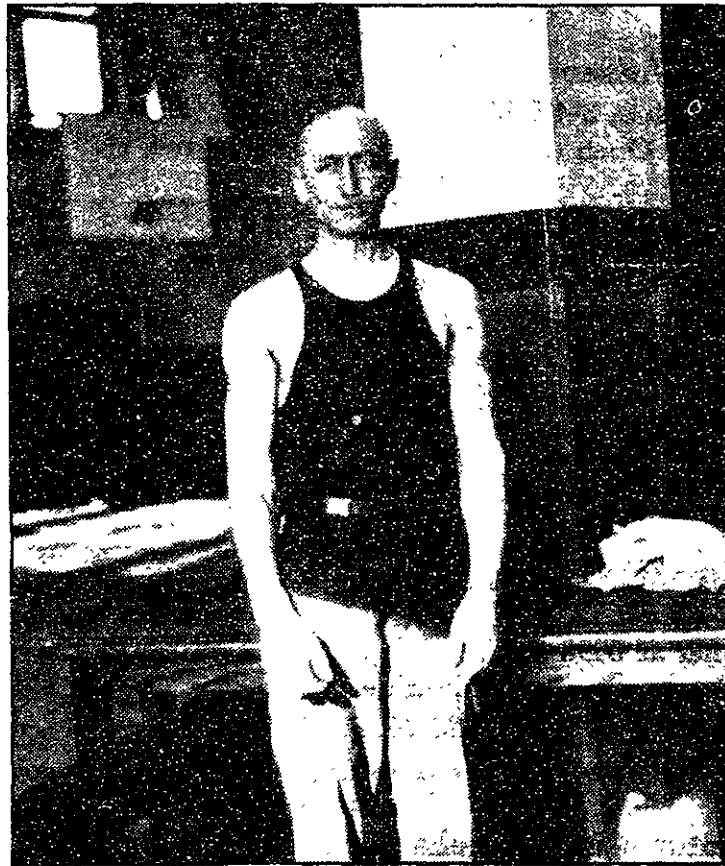
**Two hundred-yard breaststroke—Won by Birnbaum (T); second, Borden (B); third, Appleton (T). Time—2m. 52 1-5s. (New Tech record.)**

**Two hundred-yard relay—won by Brown (Bearce, Arnold, Hall, Barrows); second, M. I. T. (Mackay, Baker, Lucey, Torchio). Time—1m. 41 4-5s.**

**Medley relay race—Won by M. I. T. (Jarosh, Birnbaum, Baker); second Brown (Arnold, Wells, Hall). Time—3m. 35 2-5s.**

## H. P. McCarthy Who Directed Cage

Men in Very Succesful Season



H. P. McCarthy

## BASKETBALL TEAM CLOSES SCHEDULE

Final Game With Tufts is Lost After a Last-Minute Rally Fails

(Continued from Page 1)

to have Brig Allen go out on four personals.

### Warren Out on Personals

Soon after Brig was taken out of the game Warren the Tufts right guard also went out on personals. Throughout the last three or four minutes of the game the Beavers were constantly cutting down the Jumbos' lead and in the last couple of minutes the playing was very intense. With only a half minute to play the score stood 25 to 27 in favor of Tufts. Just as the gun went off George Lawson attempted a shot from the center of the floor, but he failed to make the score.

One of the marked characteristics of the game was the poor luck at shooting by the Engineers. At one time during the contest Brig Allen had to make four tries at the basket before he put the ball through the hoop. Again Bob Nelson had the ball right under the basket with no one near him and he failed to make his shot.

### Paul Stars For Freshmen

In the freshman game Al Cochran of Tufts was the outstanding player. He made nine baskets and five free throws for a total of 23 points, which is the highest personal total that has been made in the Hangar Gym this year. Joe Paul was the high scorer for the Engineers with a total of four baskets and three successful free throws to his credit.

This was the last game of the season for both the Varsity and the freshmen and it marks the close of one of the most successful seasons that the Engineer basketball teams have ever had.

M.I.T.	G.	F.	P.
Nelson, rf.	2	1	7
Allen, lf.	3	1	3
Brockleman, c.	1	0	2
Motter, rg.	1	0	2
Harrison, rg.	1	0	6
Lawson, lg.	3	0	6
TOTALS	10	5	25
TUFTS	G.	F.	P.
Herron, rf.	4	1	9
Ellis, lf.	1	1	3
Horton, lf.	1	1	3
Brehaut, c.	4	0	8
Warren, rg.	3	0	6
Appiani, lg.	0	1	1
TOTALS	13	3	27

M.I.T.	G.	F.	P.
Rash, rf.	2	0	4
Castleman, lf.	2	1	5
Johnson, c.	1	1	3
Ross, c.	1	0	2
Paul, rg.	4	3	11
Rickard, lg.	0	0	0
TOTALS	10	5	25
TUFTS	G.	F.	P.
Robison, rf.	2	0	4
Betts, lf.	0	1	1
Cochran, c.	9	5	23
Miller, rg.	0	0	0
Mazolla, rg.	0	0	0
Fine, lg.	1	2	4
TOTALS	12	8	32

The baseball team of the University of Michigan has been invited to play a series of baseball games in Japan next September.

## 1932 BOXERS MEET WILDCAT FRESHMEN

Hope for First Victory to End a Short Ring Schedule

In their third and last meet of the year, the yearling bag punchers will meet New Hampshire tomorrow at Durham. They have been practicing diligently, and hope to avenge the defeat of two weeks ago. The meet will consist of bouts in four weights; Robert in the 125 pound class, Daniels, who defeated his opponent in the last meet in the 135 pound class, Captain MacDonnel, 145 pounds, and Cavert, in the 160. Cavert, who is a new member on the team, has shown exceptional ability as a fighter, and hopes to make a good showing in his first meet tomorrow night. He is taking the place of Schultz, who was forced to quit the team, due to injuries received in the last meet. The weakness caused by the loss of Schultz, who was one of the fastest men on the yearling squad, has been remedied by Cavert to a large extent, and the team hopes to be as strong as ever against the Wildcat yearlings.

## The Sports Desk

During the course of next week it is hoped to have a full review of the past indoor season published. The season has been full of broken records, championships, etc., and it will be interesting to have a tabulated view of it in perspective.

The gym team has an excellent chance to win the Intercollegiate cup this year and only needs to win the Navy meet to see the cup within its grasp. The chances in the Navy meet are good and great expectations are felt of a good showing.

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## NOTICES and ANNOUNCEMENTS

## Of General Interest

Lecture by

**MR. W. B. FLANDERS**Manager of the Turbine Engineering Department of the  
Westinghouse Electric & Manufacturing Co.

on

**Advanced Problems in Turbine Design****Friday, March 8, 3-4 P.M.****Room 5-330**

Open to all students and instructing staff

**POPULAR SCIENCE LECTURE**Under the auspices of the Society of Arts  
given by**PROFESSOR ARTHUR C. HARDY**Associate Professor of Optics and Photography  
Department of Physics

on

**Color, Its Nature and Measurement****Sunday, March 10, 4 P.M.****Room 10-250****MID-WINTER PARTY OF THE FACULTY CLUB****Tuesday, March 12****North Hall, Walker Memorial**

Dinner at 6:30 P.M.

Dancing at 9:00 P.M.

Illustrated talk by

**PROFESSOR F. K. MORRIS**

Assistant Professor of Geology, Department of Geology

on

**Adventures in Mongolia with Roy Chapman Andrews**

## Calendar

**Friday, March 8**

4:00—Popular Science Lecture, Room 10-250.

6:00—Curriculum Committee Meeting, Faculty Dining Room, Walker.

7:30—Armenian Club Meeting, North Hall, Walker.

**Saturday, March 9**

6:30—Chinese Engineering Society Dinner Meeting, Faculty Dining Room, Walker.

2:30—Popular Science Lecture, Room 10-250.

**Sunday, March 10**

4:00—Popular Science Lecture, Room 10-250.

**Monday, March 11**

5:00—M. I. T. A. A. Meeting, Committee Room, Walker.

**Tuesday, March 12**

5:00—Banjo Club Meeting, East Lounge, Walker.

6:00—Faculty Club Dinner Dance, Walker.

**Thursday, March 14**

5:00—Banjo Club Meeting, East Lounge, Walker.

8:00-10:00—Basketball Tournament, Hangar Gym.

**Friday, March 15**

3:00-10:00—Basketball Tournament, Hangar Gym.

7:00—New England Intercollegiate Swimming Trials, University Club.

8:30—Armenian Club Costume Dance, North Hall, Walker.

9:00—Sophomore Dance, Longwood Towers.

**Saturday, March 16**

3:00-10:00—Basketball Tournament, Hangar Gym.

3:30—Varsity Boxing Team vs. Dartmouth, Hangar Gym.

Varsity Gym Team vs. Navy at Annapolis.

Fencing Semi-Finals at New Haven.

Many New Ideas in Evidence at 27th  
Annual Automobile Show of BostonMechanics Building Houses the  
Latest in Automotive  
Improvement

Encouraged by Governor Frank G. Allen's hearty welcome and the mayor's greetings on behalf of the city, Boston's Twenty-Seventh Annual Automobile Show opened successfully last Saturday afternoon at the Mechanics Building. As in previous years, the show is under the auspices of the Boston Automobile Dealers Association. The entire main floor of the lavishly decorated hall is devoted to the exhibition of passenger cars; the basement containing the commercial vehicle section and the balcony is taken over by additional passenger car exhibits of a special character and by the accessory and part manufacturers.

## Excellent Coach Work

The first quality that impresses one, in the show is the unprecedented beauty of the new model bodies. Coachwork designers have succeeded in incorporating into the new open sports models even more rakish lines and have given the closed cars a more low-hung and streamline appearance. Chromium plating has been accepted by a majority of manufacturers in place of nickel.

There is a considerable trend towards more powerful motors and in many cases this factor has been accomplished through merely reducing the volume of the combustion chamber, thus converting the power-plant into a high-compression engine. Engines are in many cases now mounted on rubber cushions, tending towards greater smoothness. Rubber also is widely used in spring shackles, though a new type ball-bearing shackle shows great promise.

## Eighty Displace Sixes

The invasion of the six cylinder

price field by the low priced straight eights is of primary importance and interest. This year as never before, has the increase in power, flexibility and acceleration been general. Combined with this increased power is the four speed transmission which has been introduced on a few of the more expensive makes.

Four-wheel brakes though now universal have been greatly improved, by changing the brakes in principle, from external contracting to internal expanding. This enables the manufacturer to completely enclose the drums and linings, protecting them from the weather. "One Shot," lubrication systems are now standard on an increasing number of makes.

Greater safety has been attained in the new models by the general improvement of four-wheel brakes and the widespread adoption of non-shattering glass. Added to these factors in a few new cars the tread has been widened, giving superior roadability and stability.

Apparently the 1929 automobile has undergone improvement at a very gratifying rate. It is safer, fleetier and more beautiful, without any decrease in quality.

RIDING CLASSES ARE  
GIVEN BY POLO CLUB

During the next few days, the Polo Club will make a drive to increase the membership of its riding classes. These classes are now being held in the Commonwealth Avenue Armory every Wednesday at 6 o'clock and when weather conditions are better they will be held outdoors on the Fenway.

More members are needed for these classes in order that they may be successful. At present there are only nine or ten regular riders. The rates

Designs For Open House  
Posters Are Due Monday

Students intending to submit designs in the Open House Poster contest, must turn in their entries before noon on Monday, March 11. The designs may be submitted to Professor John B. Babcock '10 in Room 1-337 or to Professor William Emerson at the Rogers Building.

It is expected at present that there will be a large number of posters submitted in competition for the two prizes of \$15 and \$10 which will be awarded as soon as the judges render their decisions.

"COLOR" IS SUBJECT  
OF SCIENCE LECTURESpectrometer Will Be Exhibited  
Camouflage Discussed

(Continued from Page 1)

sects wings. This is caused by interference.

Color can also be made by the polarization of mica. This will be demonstrated by photo-elastic experiments. Fluorescence in ultra violet light causes the color exhibited by the teeth and many dyes. The color produced by glass is due to selective transmission and that of opaque objects by selective reflection.

## Measurement of Color

Professor Hardy will demonstrate his colorimeter which he invented a year ago last fall. Since that time the machine has been around the world twice on exhibit. It compares color by measuring the length of the light waves. The spectrophotometer will also be exhibited and used. The primary color sensations and color blindness will be explained. The speaker will tell of the use of camouflage during the war, explaining how it fools the eye. This is an example of duplex paintings. Additive and subtractive methods of color mixture will be described.

Color has a great scientific and industrial importance. Professor Hardy will explain the methods used for quantitative productions of paints dyes and lacquers. He will also speak on its use in textiles and for the artificial coloring of food stuffs. The lecture will be concluded with a discussion of color standards in modern industries.

TECH SHOW PRAISED  
IN ROGERS' REVIEW

(Continued from Page 2)

of Eugene O'Neill, but it needed more drastic direction.

On the whole I found most satisfactory Hunter Rouse's "Shear Murder," the Walker Memorial satire, with the parts taken by real activity men, real stenographers and a real Eddy Pung. The idea was in itself a brilliant one, the satire was often keen, and the whole atmosphere was just right for a Technology Show. Loudon Page as the district attorney was most professional, and the Misses McRae, Denison, and Sircom really impersonated. The whole thing was as clean cut as anything on the program.

## Hopes Idea Will Continue

A word must be said for the orchestra and its leader, H. Brooks Walker, equally at home with baton or bass horn, and the specialty solo by O'Shea.

I think this year's experiment may well be repeated. It will save Tech Show. Now that the undergraduate body has seen the possibilities of the skits, we ought to have more written next year. They need to be more smartly written, to be funny without being vulgar, and to be more drastically directed. Furthermore, this year's cast was largely novices; next year there will be some experience to fall back on. A specialty act or two would not hurt the program, nor one or two musical numbers by undergraduates. Otherwise, I think that the Management has met a serious problem very successfully and pointed the way for greater success next year.

can be reduced from \$1.75 to \$1.50 for the two hour period if at least twelve members can be secured. Special instruction is given to those desiring it.

Those interested in joining these classes should notify William B. Wilder '30, 532 Beacon Street, or any representative of the Club in the Main Lobby on Monday and Tuesday.

## WINTER OR NOT

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Location Change and New Equipment  
Expected to Improve Radio StationTransfer to Building 12 Should  
Be Completed Within  
a Few Months

"With the late arrival of new equipment and the renovation of the building which is to house the new radio station, the work of transporting and assembling the transmitters is progressing rapidly", stated Albert E. Cullum '31, head of the radio society. For some time the members have been busy every afternoon working at the various details necessary in making an efficient and permanent installation.

It was decided last term to move from Building 35 to the new location in Building 12 for a number of reasons. When trains passed, the steam from their funnels condensed upon the antennae attached to the tall brick chimney and produced a large amount of static which interfered with long distance reception in the tests last term. This static also troubled transmission by jumping to the ground and thus temporarily short-circuiting outgoing signals. The present location will provide more room than in the old building thereby allowing the parts to be placed to better advantage.

## Three Antennas Used

The radio society has been fortunate in obtaining a number of flagpoles which have been set up to support the antenna system. One pole is seventy-five feet long mounted in two sections, whereas the other is a twenty-nine foot pole placed on the roof of the hangar, giving an effective height of sixty-five feet at this end. Attached to these poles will be three separate antennas for operation on eighty, forty, and twenty meters. The eighty meter radiator will be a horizontal voltage fed antenna with the top wire one half and the feeder wires one quarter wavelength long. For forty meters a horizontal current fed wire is to be employed one half wavelength long and with one half wavelength of feeder. For operation on twenty meters a vertical voltage fed wire one half wavelength antenna with a five quarter wavelength feeder will be used. A most important feature of this last system is an arrangement of ropes and pulleys which will allow the changing of the angle the antenna makes with the ground, causing a variation of the radiation angle and thereby providing a method for operating so as to determine the correct shipped distance. In all the antennas the best of pyrex insulators and lead in bowls have been provided in considerable quantity to minimize losses through leakage to ground.

The three transmitters will each be provided with one of the above radiators of appropriate dimensions. All of the drivers will employ the oscillator circuit and one quarter K. W. tube. The eighty meter set is the control station of the Army Amateur Corp Net, first Corp Area, and will be operated by the society as in the past. This station has been located here for only one year and was previously located and housed in a field station adjoining the freshman drill field. When the installation is complete this outfit will be crystal controlled, which will be the only one of the three to be so built. All of the transmitting equipment will be behind a wire cage and operated by remote control from the other side of the room.

## 30 K. W. of Power Available

A number of sources of power will be supplied to the new station. One hundred ten and two hundred twenty volts D. C., one hundred ten volts A. C. for lighting and 220 volts 3 phase A. C. for plate supply will be available. A total power of about

30 K. W. may be supplied at any time. This supply is equivalent to that of the broadcasting station WBZA here in Boston.

Three pole transformers of 3 K. W. rating each will be used with the 3 phase supply for plate power. Any voltage up to 2000 volts may be used with a maximum power output of 6 K. W. The 3 phase rectifier will employ mercury vapor tubes specially designed and built for the society by the Raytheon Company. The mercury vapor rectifying tubes are a late development which have not yet been sold commercially to the public. They have, however, proved their worth in recent laboratory tests which show a higher efficiency and better current characteristics than previous types.

## Special Overload Relay Used

The entire arrangement of receiver, transmitters, and antennae will permit the operation of any one or two of the three transmitters or all simultaneously. Special care has been taken to provide for this condition to facilitate keeping of schedules, traffic handling, and the sending of bulletins in general broadcasting. In order to obviate the possible loss of tubes through temporary excess voltages an overload relay will be installed which when operated by remote control, will control the starting of any or all of the plate supplies. This instrument which comes as a new improvement, is a circuit breaker or A. C. relay which throws over when the circuit is completed by pushing a button, and which automatically breaks circuit when any other switches are thrown.

Professor Edward L. Bowles of the Electrical Communication Department and some of his associates have cooperated in securing apparatus and aiding in the installation details so as to facilitate as much as possible the final completing of the station. The building has been reconditioned, heat facilities installed and power, and antennae installation made possible.

## Ten Meter Set Planned

It is the hope of the radio society that the station may be completely ready for operation in two or three months. As soon as the present work and arrangements are complete and at least by next year a ten meter experimental set is planned to be installed to allow for possible developments on this wave length and co-operation with other experimenters.

LIBERAL CLUB HEARS  
TALKS ON "MACHINES"

(Continued from Page 1)

to be of world interest and possibly embroil the entire world in a conflict of minor importance.

The significant civilization is coming and slowly we are losing the acquisitive attitude. The present tendency finds us making machines to make still other machines in a vicious cycle. The most hopeful sign is that we are examining ourselves and trying to see our mistakes and correct them. Soon, he says, we will reach the point where we will have the machines doing all the "dirty" work while all the persons will have complete freedom of thought and individual speculation.

The discussion and question period which followed was featured by the many variances of opinion which the students entertained. All sorts of suggestions and differences were brought up, and the future of America in this "machine-mad" age was thoroughly worked out.

The Cyclist Club at the University of Oklahoma is planning to have moonlight bicycle picnics.

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